



State Water Resources Control Board

Division of Drinking Water

November 16, 2015

Rachel Arias, Mountains Sector Maintenance Chief II California State Park – Big Basin 21600 Big Basin Way Boulder Creek, CA 95006

Attention Ms. Arias:

COMPLIANCE ORDER NO. 02_05_15R_005_4410301_02 TOTAL TRIHALOMETHANE MCL EXCEEDANCE TITLE 22, CALIFORNIA CODE OF REGULATIONS, SECTION 64533 (a) CALIFORNIA STATE PARKS - BIG BASIN, WATER SYSTEM NO. 4410301

Enclosed is a Compliance Order issued to the California State Park - Big Basin (CSP Big Basin) water system.

CSP Big Basin will be billed by the State Water Resources Control Board Division of Drinking Water for the time spent on issuing this Compliance Order. Health and Safety Code Section 116577 provides that a public water system must reimburse the Division for actual costs incurred by the Division for specified enforcement actions, including, but not limited to, preparing, issuing and monitoring compliance associated with this violation.

CSP Big Basin will receive a bill from the Drinking Water Fee Branch in August of the next fiscal year, This bill will contain fees for any enforcement time spent on the System for the current fiscal year.

If you have any questions regarding this matter, please contact Jonathan Weininger of my staff at (831) 655-6932 or me at (831) 655-6934.

Sincerely,

Jan R. Sweigert, P.E.

District Engineer, Monterey District Office Northern California Field Operations Branch

Division of Drinking Water

Enclosure:

Compliance Order No. NO. 02_05_15R_005_4410301_02

Certified Mail No. 7008 1830 0004 5435 1148

CC:

Santa Cruz County Environmental Health Department (w/ enclosures)

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

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1	STATE OF CALIFORNIA					
2	STATE WATER RESOURCES CONTROL BOARD					
3	DIVISION OF DRINKING WATER					
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5	Name of Public Water System: California State Parks – Big Basin					
6	Water System No. 4410301					
7 8 9 10 11 12	Attention: Ms. Rachel Arias MS Maintenance Chief, II CSP Big Basin State Park 303 Big Trees Park Rd. Felton, CA 95018					
4	Issued: November 16, 2015					
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7	COMPLIANCE ORDER NO. 02_05_15R_005_4410301_02					
.8	VIOLATION OF HEALTH AND SAFETY CODE SECTION 116555(a)(1) AND					
9	TITLE 22, CALIFORNIA CODE OF REGULATIONS, SECTION 64533(a)					
20	THE PRIMARY DRINKING WATER STANDARD FOR					
21	TOTAL TRIHALOMETHANES					
22						
23	The State Water Resources Control Board (hereinafter "State Board") acting by and					
24	through its Division of Drinking Water (hereinafter "Division") and the Deputy Director for					
25	the Division, hereby issues this compliance order (hereinafter "Order") pursuant to					
26	Section 116655 of the California Health and Safety Code (hereinafter "CHSC") to					
27	California State Parks - Big Basin (CSP Big Basin) for violation of CHSC, Section					
28	116555(a)(1) and Title 22, California Code of Regulations (hereinafter "CCR"), Section					
0	64533(a)					

1	A copy of the applicable statutes and regulations are included in Appendix 1, which is
2	attached hereto and incorporated by reference.
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4	STATEMENT OF FACTS
5	CSP Big Basin is a publically owned community water system (as defined in CHSC,
6	Section 116275) located in Santa Cruz County that supplies water for an estimated
7	transient population of 3,000. CSP Big Basin operates under Domestic Water Supply
8	Permit No. 86-009, issued on March 13, 1986.
9	#
10	CSP Big Basin consists of one local surface water source (Sempervirens Reservoir), one
11	microfiltration and granular activated carbon surface water treatment plant, sodium
12	hypochlorite for disinfection, and seven storage tanks (six redwood and one stainless
13	steel).
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15	Pursuant to Title 22, CCR, Section 64534.2(d), CSP Big Basin is required to collect two
16	distribution system samples per quarter for total trihalomethane (hereinafter "TTHM") and
17	haloacetic acids (hereinafter "HAA5") in accordance with their approved Stage 2
18	Disinfection Byproduct Rule Monitoring Plan (hereinafter "DBPR Plan"). Under Title 22,
19	CCR, Section 64535.2(b)(1), compliance with the TTHM MCL of 0.080 mg/L is based on
20	a running annual average (hereinafter "RAA") calculated quarterly, for each monitoring
21	location.
22	
23	A summary of CSP Big Basin TTHM results at its two approved sample locations (Sky
24	Meadow Residence and Little Basin Main Office) is presented in Table 1. All results are
25	as reported to the Division by the laboratory that performed the analysis.
26	

Table 1: TTHM Results in mg/L

Main Office	RAA		ssed in pre		0.139	0.145	0.158	0.167	0.187
Little Basin	Result	0.084	0.170	0.160	0.140	0.110	0.221	0.195	0.220
Residences	RAA	not in violation of MCL				0.084	0.088	0.092	
Sky Meadow	Result	0.043	0.039	0.100	0.044	0.064	0.126	0.117	0.059
Site		4Q2013	1Q2014	2Q2014	3Q2014	4Q2014	1Q2015	2Q2015	3Q2015
0.11-		11/21/13	2/9/14	5/21/14	8/18/14	11/18/14	2/19/15	5/21/15	8/20/15

RAA = Running Annual Average example: (4Q2014+1Q2015+2Q2015+3Q2015)/4

Bold indicates exceedance of MCL based on RAA

Title 22, CCR, Section 64535.2(b)(1) specifies: for systems monitoring quarterly, the running annual arithmetic average, computed quarterly, of quarterly arithmetic averages of all samples collected pursuant to Section 64534.2(a) shall not exceed the MCLs specified in Section 64533 (0.080 mg/L for TTHM).

As shown in Table 1, the 1st, 2nd and 3rd quarters RAA in 2015 for the Sky Meadow Residence, and 3rd and 4th quarters RAA in 2014 and 1st, 2nd and 3rd quarters RAA in 2015 for the Little Basin Main Office exceed the TTHM MCL of 0.080 mg/L.

CSP Big Basin was previously issued Citation No. 02-05-14C-011, on August 14, 2014, for exceeding the TTHM MCL based on the RAA at the Little Basin Main Office sample location in second quarter 2014. The Division is issuing this Order to update the Directive section of the previously issued Citation No. 02-05-14C-011.

DETERMINATIONS

Based on the above Statement of Facts, the Division has determined that CSP Big Basin has violated CHSC, Section 116555 and Title 22, CCR, Section 64533(a) in that CSP Big

Basin failed to comply with the MCL for TTHMs at the Sky Meadow Residence for the four-quarter monitoring periods ending with the 1st, 2nd and 3rd quarters of 2015, and at the Little Basin Main Office sites for the four-quarter monitoring periods ending with the 3rd and 4th quarters of 2014 and 1st, 2nd and 3rd quarters of 2015. For a public water system monitoring quarterly, each locational running annual average (hereinafter "LRAA"), computed quarterly, shall not exceed the MCL of 0.080 mg/L for TTHM, which consists of chloroform, bromodichloromethane, dibromochloromethane, and bromoform. The Division further has determined that said violation has continued through the date of this Order.

DIRECTIVES

CSP Big Basin is hereby directed to take the following actions:

1. On or before **December 31, 2017**, comply with Title 22, CCR, Section

 On or before **December 31, 2017**, comply with Title 22, CCR, Section 64533(a) and remain in compliance.

2. CSP Big Basin shall continue to provide quarterly public notification to all residents and employees in accordance with the Division approved notification of CSP Big Basin's failure to meet the TTHM MCL during any calendar quarter that the four-quarter running annual average exceeds the MCL. The public notification must be submitted to the Division for approval prior to distribution.

Proof of notification shall be sent to the Division within 10 days following the end of each quarter that CSP Big Basin is still in violation of the TTHM MCL.

4. By **January 20, 2016**, CSP Big Basin shall submit to the Division for review and approval, a Corrective Action Plan that identifies improvements to CSP

Big Basin's water system designed to correct the water quality problem (violation of the TTHM MCL) and ensure that CSP Big Basin delivers water to consumers that meets primary drinking water standards. The plan shall include a time schedule for completion of each of the phases of the project. The project phases shall include planning, design, construction, completing an operations plan, and startup, and a date as of which CSP Big Basin will be in compliance with the TTHM MCL, which shall be no later than **December 31**, **2017**.

- 5. On or before January 20, 2016, present the Corrective Action Plan required under Directive No. 4, above to the Division in person at the Division's office located at 1 Lower Ragsdale Drive, Building 1, Suite 120, in Monterey, California. Please contact the Monterey District office in advance to schedule an appointment.
- 6. Complete the Division-approved Corrective Action Plan and each and every element of said plan according to the time schedule set forth therein.
- 7. On or before April 10, 2016 and every three months thereafter, submit a report to the Division showing actions taken during the previous calendar quarter to comply with the Corrective Action Plan, as follows:

Quarter	Report Due Date
January 1 – March 31	April 10 of same year
April 1 – June 30	July 10 of same year
July 1 – September 30	October 10 of same year
October 1 – December 31	January 10 of next year

8. CSP Big Basin shall continue to collect quarterly samples for TTHM and HAA5 at the two approved sample locations (Sky Meadow Residence and Little Basin Main Office) according to CSP Big Basin's approved DBPR Plan and ensure that the analytical results are reported to the Division electronically by the analyzing laboratory no later than the 10th day following the month in which the analysis was completed.

9. Until formally notified of their return to compliance, CSP Big Basin shall include information regarding the TTHM MCL violation identified in this Compliance Order in the annual Consumer Confidence Reports, which must be completed and distributed by July 1st of every year. A draft of the each Consumer Confidence Report shall be submitted to the Division for review and approval prior to distribution and/or posting.

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10. Not later than ten (10) days following the date of compliance with the TTHM MCL, demonstrate to the Division that the water in the distribution system as sampled at the approved sample sites by CSP Big Basin complies with the TTHM MCL.

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11. Notify the Division in writing no later than five (5) days prior to the deadline for performance of any Directive set forth herein if CSP Big Basin and/or its owner of record anticipate it will not timely meet such performance deadline.

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All submittals required by this Order shall be submitted to the Division at the following address:

1 2 3 4 5 6	Jan R. Sweigert, P.E. District Engineer, Monterey District Office State Water Resources Control Board Division of Drinking Water 1 Lower Ragsdale Drive, Building 1, Suite 120 Monterey, CA 93940
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8	As used in this Order, the date of issuance shall be the date of this Order; and the date of
9	service shall be the date of service of this Order, personal or by certified mail, on the
10	California State Parks – Big Basin or its owner of record.
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12	The Division reserves the right to make such modifications to this Order and/or to issue
13	such further order(s) as it may deem necessary to protect public health and safety. Such
14	modifications may be issued as amendments to this Order and shall be deemed effective
15	upon issuance.
16	
17	Nothing in this Order relieves California State Parks – Big Basin or its owner of record of
18	its obligation to meet the requirements of the California Safe Drinking Water Act (SDWA),
19	or any regulation, standard, permit or order issued thereunder.
20	
21	PARTIES BOUND
22	This Order shall apply to and be binding upon California State Parks – Big Basin, its
23	owners, shareholders, officers, directors, agents, employees, contractors, successors,
24	and assignees.
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26	SEVERABILITY
27	The Directives of this Order are severable, and California State Parks – Big Basin and its
28	owner of record shall comply with each and every provision hereof, notwithstanding the
29	effectiveness of any other provision.



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Stefan Cajina, P.E., Chief

Division of Drinking Water

State Water Resources Control Board

North Coastal Section

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FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the State Board to: issue an order with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any regulation, permit, standard, citation, or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the State Board to take action to suspend or revoke a permit that has been issued to a public water system if the public water system has violated applicable law or regulations or has failed to comply with an order of the State Board; and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with an order of the State Board. The State Board does not waive any further enforcement action by issuance of this Order.







Santa Cruz County Environmental Health Department (no attachments) CC:

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APPENDIX 1. APPLICABLE STATUTUES AND REGULATIONS FOR COMPLIANCE ORDER NO. 02_05_15R_005_4410301_02

CHSC, Section 116555(a)(1) states in relevant part:

- (a) Any person who owns a public water system shall ensure that the system does all of the following:
- (1) Complies with primary and secondary drinking water standards.

CHSC, Section 116655 states in relevant part:

- (a) Whenever the department determines that any person has violated or is violating this chapter, or any permit, regulation, or standard issued or adopted pursuant to this chapter, the director may issue an order doing any of the following:
 - (1) Directing compliance forthwith.
 - (2) Directing compliance in accordance with a time schedule set by the department.
 - (3) Directing that appropriate preventive action be taken in the case of a threatened violation.
- (b) An order issued pursuant to this section may include, but shall not be limited to, any or all of the following requirements:
 - (1) That the existing plant, works, or system be repaired, altered, or added to.
 - (2) That purification or treatment works be installed.
 - (3) That the source of the water supply be changed.
 - (4) That no additional service connection be made to the system.
 - (5) That the water supply, the plant, or the system be monitored.



1	(6) That a report on the condition and operation of the plant, works, system, or					
2	water supply be submitted to the department.					
3	Title 22, CCR, Section 64533(a) (hereinafter "Section 64533(a)"), states in relevant					
4	part:					
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6	(a) Using the monitoring and calculation methods specified in sections					
7	64534, 64534.2, 64535, and 64535.2, the primary MCLs for the disinfection byproducts					
8	shown in table 64533-A shall not be exceeded in drinking water supplied to the public.					
9						
10	Table 64533-A					
11	Maximum Contaminant Levels and Detection Limits for					
12	Purposes of Reporting Disinfection Byproducts					
13 14 15 16 17 18 19 20 21 22	Maximum Detection Limit for Purposes of Reporting Disinfection Byproduct Level (mg/L) Total trihalomethanes (TTHM) Bromodichloromethane Bromoform Chloroform Dibromochloromethane Detection Limit for Purposes of Reporting (mg/L) 0.080 0.0010 0.0010 0.0010					
24	Compliance with the TTHM maximum contaminant level (hereinafter "MCL") is					
25	determined by Title 22, CCR, Section 64535.2(b), which states:					
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27	(b) TTHM and HAA5 MCL compliance, as monitored pursuant to section 64534.2(a),					
28	shall be determined as follows:					
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30	(1) For systems monitoring quarterly, the running annual arithmetic average,					
31	computed quarterly, of quarterly arithmetic averages of all samples collected					



pursuant to section 64534.2(a) shall not exceed the MCLs specified i section 64533;

- (2) For systems monitoring less frequently than quarterly, the average of samples collected that calendar year pursuant to section 64534.2(a) shall not exceed the MCLs specified in section 64533. If the average of the samples collected under section 64534.2(a) exceeds the MCL, the system shall increase monitoring to once per quarter per treatment plant. Compliance with the MCL shall then be determined by the average of the sample that triggered the quarterly monitoring and the following three quarters of monitoring, unless the result of fewer than four quarters of monitoring will cause the running annual average to exceed the MCL, in which case the system is in violation immediately. After monitoring quarterly for four consecutive quarters (including the quarter that triggered the quarterly monitoring), and until such time as monitoring returns to routine monitoring pursuant to section 64534.2(a)(3), compliance shall be determined pursuant to paragraph (1);
- (3) If the running annual arithmetic average of quarterly averages covering any consecutive four-quarter period exceeds the MCL, the system is in violation of the MCL and shall notify the public pursuant to sections 64463, 64463.4, and 64465, including language in appendix 64465-G, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6; and

(4) If a public water system fails to complete four consecutive quarters of monitoring, compliance with the MCL for the last four-quarter compliance period shall be based on an average of the available data.